RGB 164xi

Two Output, Universal Mountable Computer-Video Interface with Audio and ADSP™

FEATURES

- Input: RGB video on female 15-pin HD connector; audio on 3.5 mm stereo mini connector
- Output: RGB video on female BNC connectors for RGBHV, RGBS, or RGsB; audio on captive screw connector
- Compatible with VGA-QXGA, Mac, Sun®, and SGI® computers
- 300 MHz (-3 dB) RGB video bandwidth
- ADSP™ - Advanced Digital Sync Processing
- Active PC audio to balanced audio interfacing
- Three-position level/peaking switch
- DDSP™ - Digital Display Sync Processing
- Automatic sync stripping from red, green, and blue
- Buffered female 15-pin HD local monitor output

DESCRIPTION

The Extron **RGB 164xi** with ADSP™ is a universal, analog computer-video interface with two sets of BNC outputs, a female 15-pin HD input, and buffered local monitor output. It has a 15-130 kHz scanning range and 300 MHz (-3 dB) RGB video bandwidth. It is also compatible with VGA-QXGA, Mac, Sun, and SGI signals, and will convert computer-generated, unbalanced audio to balanced line level audio. Sync processing is achieved through Extron's exclusive ADSP - Advanced Digital Sync Processing technology, ensuring compatibility with digital display devices such as DLP, LCD, D-ILA™/LCoS, plasma, etc. The 1U, half rack durable metal enclosure can be mounted in a rack, as well as under or through a desk utilizing optional mounting brackets.

SPECIFICATIONS

VIDEO

Gain	Unity, (0.725 Vp-p) 50% peaking, (0.75 Vp-p) 100% peaking
Bandwidth	300 MHz (-3 dB)

VIDEO INPUT

Number / Signal type	1 analog RGBHV, RGBS, RGsB, RsGsBs
Connectors	1 female 15-pin HD
Nominal level	0.7 Vp-p for RGB
Minimum / Maximum levels	Analog: 0.3 V to 1.5 Vp-p with no offset at unity gain
Impedance	75 ohms
Horizontal frequency	Autoscan 15 kHz to 130 kHz
Vertical frequency	Autoscan 30 Hz to 120 Hz

VIDEO OUTPUT

Number / Signal type	2 analog RGBHV, RGBS, RGsB
Connectors	2 x 6 female BNC, 1 female 15-pin HD local monitor buffered output
Nominal level	0.7 Vp-p for RGB
Minimum / Maximum levels	Analog: 0.7 V to 0.75 Vp-p with 0.70 Vp-p input
Impedance	75 ohms

SYNC

Input type	RGBHV TTL (±), RGBS TTL (±), RGsB 0.3 V (-), RsGsBs 1.3 V (-)
Output type	RGBHV (±), RGBS (±), RGsB (-)
Input level	2 V to 5.5 Vp-p with ±0.2 VDC offset (max.)
Output level	4 V to 5 Vp-p, unterminated
Input impedance	510 ohms
Output impedance	75 ohms
Max. propagation delay	48 ns
Max. Rise / Fall time	3.5 ns
Polarity	RGBHV: when RGBHV is input, polarity follows input; otherwise negative RGBS, RGsB: negative

AUDIO

Gain	Unbalanced output: 0 dB; balanced output +6 dB
Frequency response	20 Hz to 20 kHz, ±0.05 dB
THD + Noise	0.03% @ 1 kHz, 0.3% @ 20 kHz at nominal level
S/N	>72 dB, at maximum output (14 dBu), balanced (unweighted)
Stereo channel separation	>66 dB @ 1 kHz to 20 kHz

AUDIO INPUT

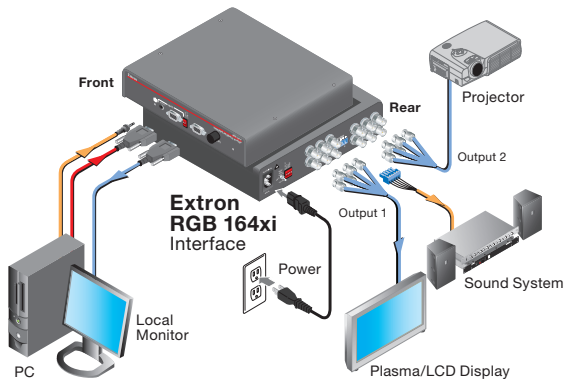
Number / Signal type	1 PC level stereo, unbalanced
Connectors	(1) 3.5 mm stereo jack, 2 channel; tip (L), ring (R), sleeve (ground)
Impedance	5k ohms, DC coupled
Nominal level	-10 dBV (316 mVrms)
Maximum level	+4.2 dBu, (unbalanced) at 1% THD+N

AUDIO OUTPUT

Number / Signal type	1 stereo (2 channel), balanced/unbalanced
Connectors	(1) 3.5 mm captive screw connector, 5 pole
Impedance	50 ohms unbalanced, 100 ohms balanced
Maximum level (600 ohm)	>+8.8 dBm, balanced at 1% THD+N

GENERAL

Power	100 VAC to 240 VAC, 50/60 Hz, 15 watts, internal, universal
MBC power jack	9.0 VDC, 150 mA
Rack mount	Yes, with optional rack shelf, #60-190-01
Furniture mount	Yes, with optional kits, #70-077-01 and #70-077-02
Enclosure type	Metal
Enclosure dimensions	1.75" H x 8.75" W x 6.0" D (1U high, half rack wide) 4.4 cm H x 22.2 cm W x 15.2 cm D (Depth excludes connectors.)
Product / Shipping weight	1.7 lbs (0.8 kg) / 3 lbs (2 kg)



MODEL

MODEL	VERSION DESCRIPTION	PART #
RGB 164xi	Two Output Universal Interface w/Audio	60-485-01

REQUIRED ACCESSORY	MODEL DESCRIPTION	PAGE	PART #
VGA-A M-M MD/6	VGA with Audio Cable: 15-pin HD Male to Male Molded - 6' (1.8 m)	page 60	26-490-02
Mac 15-HD	Mac Adapter Kit with Audio	page 60	70-156-01
13W3 - 15HD	13W3 Adapter Kit with Audio	page 60	70-157-03

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